

# ECM group

February 24, 2006

Joan Fleck  
RWQCB - North Coast Region  
5550 Sky Lane Blvd., Suite A  
Santa Rosa, CA 95403

Re: Redwood Oil Company Service Station  
1100 Bennett Valley Road  
Santa Rosa, CA

Dear Ms. Fleck:

This letter has been prepared to discuss the status of Monitoring Well MW-15, the multi-level well at the above-referenced site. Location of MW-15 is shown on Figure 2 of the attached Ground Water Monitoring Report for the fourth quarter of 2005.

MW-15 is a multi-level well with screened ports at the following depths:

30 ft - 40 ft bgs  
60 ft - 70 ft bgs  
83 ft - 93 ft bgs  
140 ft - 150 ft bgs

The well casing for MW-15 is composed of multi-channel tubing, which enables the placement of up to seven separate sampling ports in a single well. Details of multi-channel tubing and well construction are included in the July 29, 2005 well installation report.

While preparing the attached Fourth Quarter, 2005 Monitoring Report, cumulative laboratory analytical data for MW-15 was analyzed. Cumulative laboratory analytical data for MW-15 is tabulated in Tables 2 and 3 (Appendix B) of the attached Monitoring Report. An examination of the data shows that, over four consecutive monitoring events, results for the shallow port (30 ft - 40 ft bgs) are practically identical with results for the deepest port (140 ft - 150 ft bgs). This raised the possibility that there could be cross-communication between the two ports.

On February 16, 2006, field testing was conducted to confirm whether cross-communication between the ports was occurring. It was observed that, when water was pumped from the deep sampling port, water level in the shallow sampling port dropped rapidly. This confirms that cross-communication is occurring between the two ports.

Based on the above observations, it was concluded that all data collected from the shallow sampling port and the deep sampling port of MW-15 is invalid. No cross-communication was observed between the two remaining sampling ports (60 ft - 70 ft bgs and 83 ft - 93 ft bgs). However, the entire well is now compromised and all data from the well should be considered unreliable.

Monitoring well MW-15 will be destroyed under appropriate permit and replaced with one or more properly constructed monitoring wells. A workplan detailing the proposed well destruction and well replacement will be submitted under separate cover.

Thank you for your attention to this site. Please call if you have questions or require additional information.

Sincerely,  
ECM Group



Jim Green  
Project Manager

cc: John Mahoney, Redwood Oil Company